

upon initiation of a new packet transmission, as expressly defined in independent claims 1, 17 and 21.

Thus, when the packet transmission is started, the method of the present invention ramps the modulation signals instead of ramping the power amplifier gain, thereby eliminating the frequency glitches that may result from turning on the power amplifier when the packet transmission is started.

Applicant respectfully disagrees with the assertion of the Examiner that the above-underlined feature has been disclosed in Petrick (US Patent No. 5,712,870). Petrick discloses a method and apparatus for receiving and transmitting direct sequence spread spectrum signals, in which the header (preamble) data in the packet message is used for control purposes (to identify the type of signaling to be used, to select a proper antenna, to determine when the last bit of the packet is received, etc., see col. 9, lines 45-col. 10, lines 4). However, contrary to the assertion of the Examiner, it cannot be found anywhere in Petrick a teaching or implication of ramping the modulation signals upon initiation of a new packet transmission so as to solve the frequency glitch problem. In fact, Petrick does not address the frequency glitch problem at all. Moreover, there is no indication or implication throughout Petrick that the “power ramping” information included in the preamble of the data header as shown in Figure 1 means ramping of modulation signals. Therefore, Applicant respectfully submits that independent claims 1, 17 and 21 are not anticipated by Petrick under 35USC 102(b), and are therefore patentable.

At least for the same reasons, dependent claims 2-7 and 18-20 are also believed patentable as each of them includes all the limitations of either independent claims 1 or claim 17. Moreover, dependent claims 4 further recites that “the modulation signals are ramped by applying an analog ramping signal to the in-phase and quadrature-phase signals”, and dependent claim 19 further defines that “the modulation signals are ramped by monotonically scaling a set of digital words representing the in-phase and quadrature-phase signals”, which cannot be found anywhere in Petrick as Petrick does not disclose anything about ramping of the modulation signals. Therefore, the patentability of

dependent claims 4 and 19 is further strengthened.

Applicant therefore respectfully requests reconsideration and allowance in view of the above remarks. The Examiner is authorized to deduct additional fees believed due from our Deposit Account No. 11-0223.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal service as first class mail, in a postage prepaid envelope, addressed to Mail Stop Non-fee Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on January 12, 2003.

Dated January 12, 2003 Signed Paula M. Halsey Print Name Paula M. Halsey